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and New Jersey, and contains descriptions of two hundred and twenty-eight new species of fossil Mollusca, together with a few other fossils.

Notice of the Oolitic Formation in America, with descriptions of some of its Organic Remains. Published in the Transactions of this Society in 1841. It relates to the formation in New Grenada and Cuba, and contains descriptions and figures of upwards of twenty new species of Ammonites, *Trigonia*, *Terebratula*, etc.

On Fossil Footmarks in the Red Sandstone of Pottsville, Pa., published in the Transactions of this Society in 1852. An earlier notice is given in the Proceedings of 1849. In this is described the tracks of an amphibian vertebrate to which Mr. Lea gave the name of *Sauropus primævus*. The fossil was discovered by Mr. Lea in the Red Sandstone of Formation No. 11, below the Coal Measures, of Roger's plan, of the Geological Survey of Pennsylvania. The report of the discovery at the time excited considerable interest among naturalists from the circumstance that the specimen was the earliest evidence of the existence of air-breathing vertebrates.

Description of a Fossil Saurian of the New Red Sandstone Formation of Pennsylvania. Published with illustrations in the Journal of the Academy in 1852. This gives a description of a saurian reptile to which Mr. Lea gave the name of *Clepsaurus pennsylvanicus*, based on some fossil bones discovered at Milford, Lehigh county, Pa., the first at that time found in the Triassic formation of this country.

Mr. Lea took the advantage of his opportunities to make a full collection of the objects of his study and investigation, and this, with the exception of the collection of Tertiary fossils, which was presented to the Academy of Natural Sciences during his life-time, he has bequeathed to the National Museum at Washington, where it will be preserved for the study and admiration of future naturalists.

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*Stated Meeting, September 2, 1887.*

Present, 9 members.

President, Mr. FRALEY, in the Chair.

Correspondence was submitted as follows:

Letters of envoy from the Madras Observatory; Physikalisch-Central-Observatorium, St. Petersburg; K. P. Akademie der Wissenschaften, and Physikalische Gesellschaft, Berlin; Académie Royale des Sciences, Lettres et Arts, Modène; Musée Guimet, Paris; Meteorological Office and Statistical Society, London; Harvard College, Cambridge, Mass.; United

States Geological Survey and Smithsonian Institution (Bureau of Ethnology), Washington; Observatorio Meteorologico Central, Mexico; California Academy of Sciences, San Francisco.

Letters of acknowledgment from the Institut Egyptien, Cairo (123, and asking for 86, 87, 88); Natural History Society, Odessa (96-123); Comité Géologique, St. Petersburg (123); Observatoire de Tashkent (96-124); Deutsche Geologische Gesellschaft, Berlin (120-123); Naturwissenschaftlicher Verein, Bremen (121-124); Naturforschende Gesellschaft, Emden (124); Prof. Dr. Paul Albrecht, Hamburg (124); Naturhistorische Gesellschaft, Nürnberg (121-123); Verein für vaterländische Naturkunde in Würtemberg, Stuttgart (117-121); Istituto Veneto d Scienze, Lettere ed Arti, Venezia (114-116); R. Academia de la Historia, Madrid (123, 124); Académie Royale des Sciences de Lisbonne (115, 116, 117); Observatorio Astronomico Nacional Mexicano, Tacubaya (124); Canadian Institute (125); Horatio Hale, Clinton, Canada; Geological Survey of Canada, Ottawa (125); Society of Natural History, Portland, Me. (125); New Hampshire Historical Society, Concord (125); Prof. C. H. Hitchcock, Hanover (125); Boston Athenæum, Society of Natural History, Historical Society, Public Library, American Academy of Arts and Sciences of Massachusetts, Messrs. S. P. Sharples, D. Humphreys Storer, Boston (125); Museum of Comparative Zoölogy, Mr. Robert N. Toppin, Cambridge (125); Free Public Library, New Bedford (125); Dr. Pliny Earle, Mr. Benj. Smith Lyman, Northampton (125); Essex Institute, Salem (125); American Antiquarian Society, Worcester (125); Rhode Island Historical Society, Franklin Society, Providence (125); Connecticut Historical Society, Hartford (125); Yale College Library, Prof. Elias Loomis, New Haven (125); New York State Library, Albany (125); Buffalo Library, Society of Natural Sciences, Buffalo (125); Dr. Edward North, Clinton, N. Y. (125); Profs. T. F. Crane, B. G. Wilder, Ithaca (125); New York Hospital, Astor Library, Historical Society, Columbia College, University of the City of New York, Prof.

John I. Stevenson, Prof. Henry M. Baird, Messrs. James Douglas, John Ericsson, New York (125); Oneida Historical Society, Utica (125); United States Military Academy, West Point (125); Messrs. J. C. Martindale, William John Potts, Camden (125); New Jersey Historical Society, Newark (125); Dr. G. H. Cook, New Brunswick (125); Prof. W. H. Green, Princeton (125); Historical Society of Pennsylvania, College of Pharmacy, Numismatic and Antiquarian Society, College of Physicians, Library Company of Philadelphia, Hon. Wm. D. Kelley, Revs. Geo. D. Boardman, Jesse Y. Burk, H. Clay Trumbull, Drs. F. A. Genth, Wm. H. Greene, G. H. Horn, W. W. Keene, Isaac Norris, Jr., C. Newlin Peirce, Ruschenberger, W. H. Wahl, Profs. John Ashurst, Jr., F. A. Genth, Jr., S. W. Gross, H. V. Hilprecht, J. P. Lesley, John Marshall, Messrs. W. S. Baker, Edwin A. Barber, John H. Brinton, Isaac Burk, Thos. M. Cleemann, Wm. Morris Davis, Patterson DuBois, H. H. Houston, Wm. W. Jefferis, Francis Jordan, Jr., G. deB. Keim, A. E. Lehman, A. S. Letchworth, Thos. Meehan, C. Stuart Patterson, Robert Patterson, Henry Phillips, Jr., Franklin Platt, Theo. D. Rand, G. B. Roberts, L. A. Scott, Henry D. Wireman, Jos. Zentmayer, Philadelphia (125); Dr. Robert H. Alison, Ardmore (125); Prof. Jas. C. Booth, Haverford College (125); Mr. P. F. Rothermel, Linfield (125); Dr. Chas. B. Dudley, Altoona (125); Rev. Jas. A. Murray, Carlisle (125); Rev. Thos. C. Porter, Prof. J. W. Moore, Easton (125); Pennsylvania State Library, Harrisburg (125); Mr. Ario Pardee, Hazleton (125); Mr. John Fulton, Johnstown (125); Linnæan Society, Lancaster (125); Mr. John F. Carll, Pleasantville (125); Messrs. P. W. Sheaffer, Heber S. Thompson, Pottsville (125); Dr. F. A. Randall, Warren (125); Hon. Washington Townsend, Mr. Philip P. Sharples, West Chester (125); Wyoming Historical and Geological Society, Wilkes-Barre (125); United States Naval Institute, Annapolis (125); Maryland Institute, Prof. H. B. Adams, Baltimore (125); Smithsonian Institution (91, 93, 104, 125 and two cases of exchanges), United States Geological Survey, Signal Office, Surgeon-General's Office, United States Naval Observatory, Patent

Office, Gen. M. C. Meigs, Drs. J. S. Billings, J. H. C. Coffin, Albert S. Gatschet, Asaph Hall, C. V. Riley, Messrs. Chas. A. Schott, Wm. B. Taylor, Washington, D. C. (125); Virginia Historical Society, Richmond (125); Leander McCormick Observatory, Prof. J. W. Mallet, University of Virginia (125); Elliott Society of Sciences and Art, Charleston (125); Georgia Historical Society, Savannah (125); Prof. E. W. Claypole, Akron, O. (125); Cincinnati Observatory, Society of Natural History, Prof. J. M. Hart, Cincinnati (125); Rev. Henry S. Osborn, Oxford, O. (125); Dr. Robert Peter, Lexington, Ky. (125); Prof. J. L. Campbell, Crawfordsville, Ind. (125); Prof. Daniel Kirkwood, Bloomington, Ind. (125); Chicago Historical Society (125); Rantoul Literary Society (125); Profs. Henry S. Frieze, Alexander Winchell, Ann Arbor, Mich. (125); State Historical Society of Wisconsin, Madison (125); Kansas Historical Society, Topeka (125); University of California, Profs. John and Joseph LeConte, Berkeley (125); California Academy of Sciences, Prof. George Davidson, San Francisco, (125).

The following societies, etc., were at request placed upon the Exchange List to receive the Society's Proceedings from No. 96:

Natural History and Antiquarian Society of Penzance; Physiological Society of Berlin; Royal Library, Brussels; Verein für Erdkunde, Metz; Wagner Free Institute of Science, Philadelphia; Voigtländischer Alterthumsforschender Verein, Hohenleuben, Saxony; Linnean Society of New South Wales, Elizabeth Bay.

A letter was read in relation to a portrait of Humboldt, offered for sale to the Society, and the President was authorized to appoint a committee to ascertain what members are desirous of subscribing to the purchase of same for presentation to the Society.

The Observatorio Meteorologico Magnetico Central, Mexico, requested by letter Proceedings 102, 103, 104, 106, 107, 108, 116; on motion the request was granted.

Letters accepting membership were read from:

Dr. Henry Kiepert, Berlin.

Miss Helen C. de S. Abbott, Philadelphia.

Mr. Joseph S. Harris, Philadelphia.

Mr. William Henry Rawle, Philadelphia.

Prof. Albert H. Snyth, Philadelphia.

Prof. James Tyson, M.D., Philadelphia.

Prof. William Powell Wilson, M.D., Philadelphia.

Mr. Henry D. Wireman, Philadelphia.

Mr. Wm. T. Barnard, Baltimore, Md.

Circulars were presented as follows:

From Dr. A. de Bausset, Chicago, in relation to his proposed aerial polar voyage in June, 1888.

From the Australasian Association for the Advancement of Science, to be held November 10, 1886.

From the Academia Regia Nederlandica enclosing its *Programma Certaminis Poeticæ*, 1888, with award of prizes.

From the Committee on the Centennial Celebration of the settlement of the Northwest, to be held at Marietta, Ohio, April 7, 1888.

A communication was presented from Dr. Genth, enclosing corrections of some *errata* that had occurred in printing his paper.

Accessions to the Library were reported from the Asiatic Society of Japan, Yokahama; Physikalische Gesellschaft, Deutsche Geologische Gesellschaft, K. P. Akademie der Wissenschaften, Berlin; Prof. H. Carvill Lewis, Heidelberg; K. Sächsische Gesellschaft der Wissenschaften, Leipzig; Deutsche Gesellschaft für Anthropologie, etc., Geographische Gesellschaft, München; Verein für vaterländische Naturkunde in Würtemberg, Stuttgart; Prof. F. Sandberger, Würzberg; Société Helvétique des Sciences Naturelle, Genève; Société Vandoise des Sciences Naturelle, Lausanne; Académie R. de Copenhagen; K. Zoologisch Botanisch Genootschap, 'S. Gravenhage; Société Malacologique de Belgique, Bruxelles; Académie R. des Sciences, etc., de Modena; Società Toscana di Scienze Naturali, Pisa; R. Comitato Geologico d'Italia, Roma; R. Istituto Veneto di Scienze, etc., Venezia; British Association for the Advancement of Science, Zoölogical Society, Lon-

don; Penzance Natural History and Antiquarian Society, Plymouth; Royal Dublin Society; South African Philosophical Society, Cape Town; Royal Society of Canada, Montreal; American Oriental Society, Boston; Albany Institute; Meteorological Observatory, Academy of Sciences, American Chemical Society, New York; Franklin Institute, Prof. Edwin J. Houston, Mr. Henry Phillips, Jr., Mr. E. V. d'Invilliers, Philadelphia; United States Geological Survey, United States National Museum, National Academy of Sciences, Dr. Francis Wharton, Washington, D. C.; Wisconsin Historical Society, Madison; Editor of "The American Antiquarian," Chicago; University of California, Berkeley; Deutsche Wissenschaftsverein zu Santiago de Chili.

Photographs for the Album were received from Prof. Giuseppi Sergi, Rome; Prof. Henry M. Baird, New York; Prof. Edward North, Clinton, N. Y.; Rev. George Dana Boardman, Drs. Isaac Norris, Jr., Wm. Thomson, and Mr. Patterson DuBois, Philadelphia.

The committee to examine the paper on the *Datames Magna*, reported it worthy of publication, and was on motion discharged.

Announcement was made of the deaths of the following members:

Prof. S. F. Baird, Washington, D. C., August 19, 1887, æt. 65.

Charles Rau, Washington, D. C., July 25, 1887, æt. 61.

Jean Victor Duruy, Paris, August, 12, 1887, æt. 76.

Alvan Clark, August 22, 1887, Cambridgeport, Mass., æt. 84.

Rt. Rev. William Bacon Stevens, Philadelphia, June 11, 1888, æt. 73.

Dr. N. A. Randolph, Philadelphia, August 21, 1887, æt 30.

On motion, the President was authorized to appoint suitable persons to prepare the usual obituary notices of Dr. Randolph and Bishop Stevens. [Subsequently the President appointed Rev. Jesse Y. Burk for Bishop Stevens and Dr. Rothrock for Dr. Randolph.]

Communications were presented through the Secretaries as follows:

1. "On Biela's Comet and the Large Meteors of November 27-30," by Prof. Daniel Kirkwood, Bloomington, Ind.
2. "On the Systematic Position of the Mallophaga," by Prof. A. S. Packard, Providence, R. I.
3. "Preliminary Report on the Vertebrate Fossils of the Uinta Formation Collected by the Princeton Expedition of 1886," by Profs. W. B. Scott and Henry F. Osborn, Princeton, N. J.

Dr. D. G. Brinton read a paper entitled "Were the Toltecs an Historic Nationality?"

Pending nominations Nos. 1156, 1159, 1164, 1169 and 1170 were read.

The President reported that he had received and paid over to the Treasurer \$132.11, the July interest from the Michaux legacy.

Mr. Price offered the following resolutions, which were unanimously adopted :

*Resolved*, That J. Sergeant Price, Treasurer, be authorized to assign and transfer unto the Board of Reconstruction Trustees of the Philadelphia & Reading Railroad Co., and The Philadelphia & Reading Coal and Iron Co., the loans of The Schuylkill Navigation Co., belonging to the American Philosophical Society and to the Trustees of the Building Fund of the American Philosophical Society, in accordance with the terms and conditions of the proposition of June 22, 1887.

*Resolved*, That the Treasurer be and he is hereby authorized to receive payment of one thousand dollars, of the loans of the City of Philadelphia, now standing in the name of the Society, and belonging to this Society, and maturing July 1, 1887.

And the meeting was adjourned by the President.